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⌘ Title: **JP06228186A2: 2'-DEOXY-@(3754/24)2'S)-ALKYLPYRIMIDINE NUCLEOSID
DERIVATIVE**

⌘ Derwent Title: New 2'-deoxy-(2'S)-alkyl:pyrimidine nucleoside derivs. - are antiviral
agents against e.g. herpes simplex. [\[Derwent Record\]](#)

⌘ Country: **JP Japan**
⌘ Kind: **A**

⌘ Inventor: **MATSUDA AKIRA;
SHUTO SATOSHI;
BABA MASANORI;
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⌘ Assignee: **YAMASA SHOYU CO LTD**
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⌘ Published / Filed: **1994-08-16 / 1993-01-29**

⌘ Application
Number: **JP1993000034495**

⌘ IPC Code: **C07H 19/06; A61K 31/70;**

⌘ Priority Number: **1993-01-29 JP1993000034495**

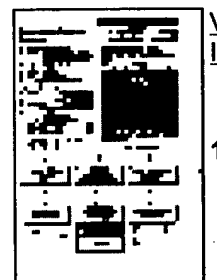
⌘ Abstract: **PURPOSE:** To obtain the subject new derivative, composed of a
2'-deoxy-(2'S)- alkylpyrimidine nucleoside derivative, having
excellent antiviral activity, good in absorbability, solubility and
stability with hardly any side effects and useful as an antiviral agent,
etc.

CONSTITUTION: The 2'-position of the saccharide part in a
pyrimidine nucleoside derivative expressed by formula I (R1 is
amino or OH; Z is protecting group) is alkylated with an alkylating
agent (e.g. methylmagnesium bromide) to provide a compound
expressed by formula II (R3 is lower alkyl). The hydroxyl group at
the 2'-position of the saccharide part in the produced compound
expressed by formula II is then acylated with an acylating agent
(e.g. methyloxalyl chloride) and subsequently reduced with a
reducing agent (e.g. tributyltin hydride) to afford a compound
expressed by formula III. The basic part at the 5-position thereof is
further halogenated with a halogenating agent (e.g. N-
iodosuccinimide) and the protecting group of the saccharide part is
then released. The 5'-position of the saccharide part, as necessary,
is subsequently phosphorylated to afford the objective nucleoside
derivative expressed by formula IV (R2 is halogen; R4 is H or
phosphoric acid residue).



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⌘ Family: **None**

⌘ Forward **Go to Result Set: Forward references (2)**



References:

| PDF | Patent | Pub.Date | Inventor | Assignee | Title |
|---|---------------------------|------------|-------------------------|--------------------------------|---|
|  | US6914054 | 2005-07-05 | Sommadossi; Jean-Pierre | Idenix Pharmaceuticals, Inc. | Methods and compositions for treating hepatitis C v |
|  | US5627053 | 1997-05-06 | Usman; Nassim | Ribozyme Pharmaceuticals, Inc. | 2'-deoxy-2'-alkylnucleotide containing nucleic acid |

Other Abstract
Info:

CHEMABS 122(03)031836U CAN122(03)031836U DERABS C94-299800 DERC94-299800
JAPABS 180601C000160 JAP180601C000160



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